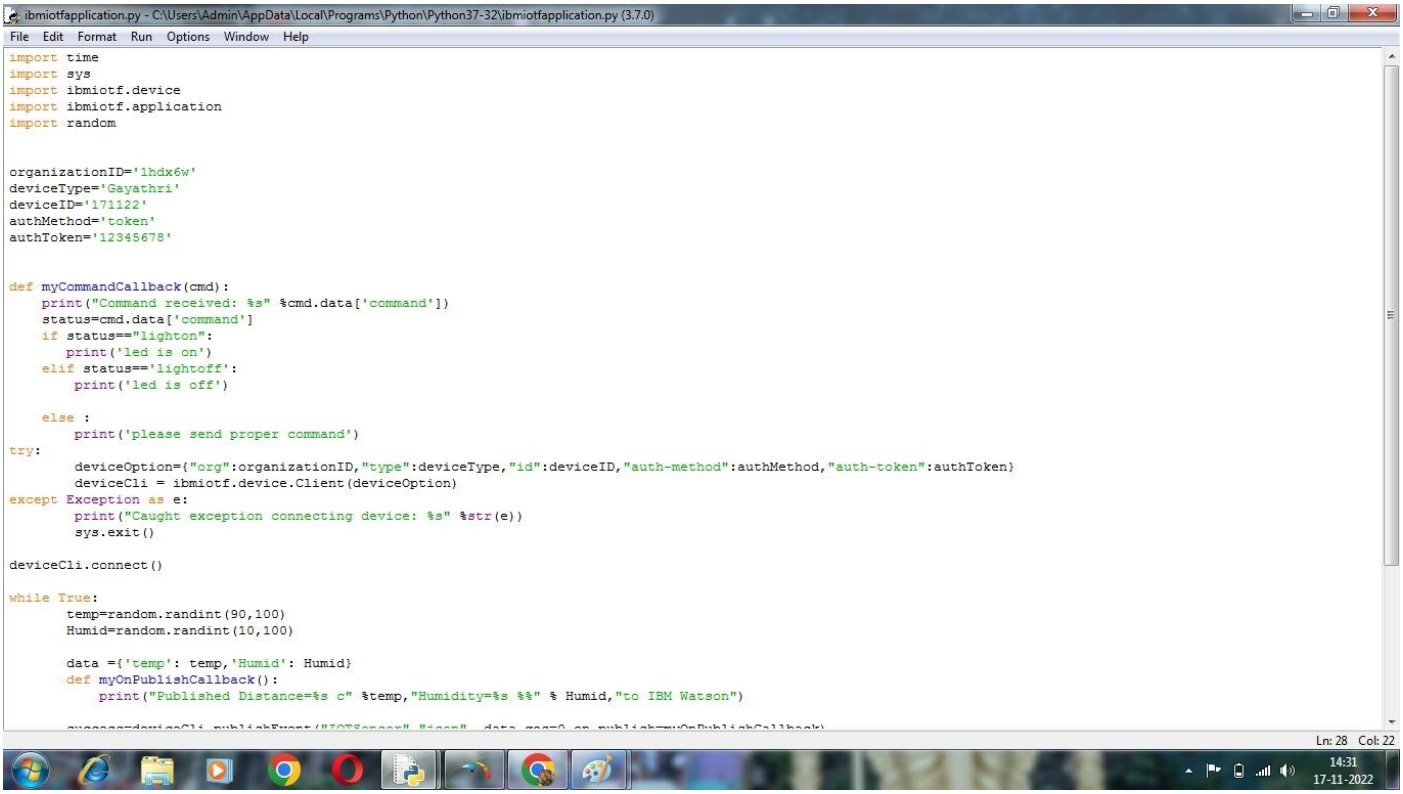
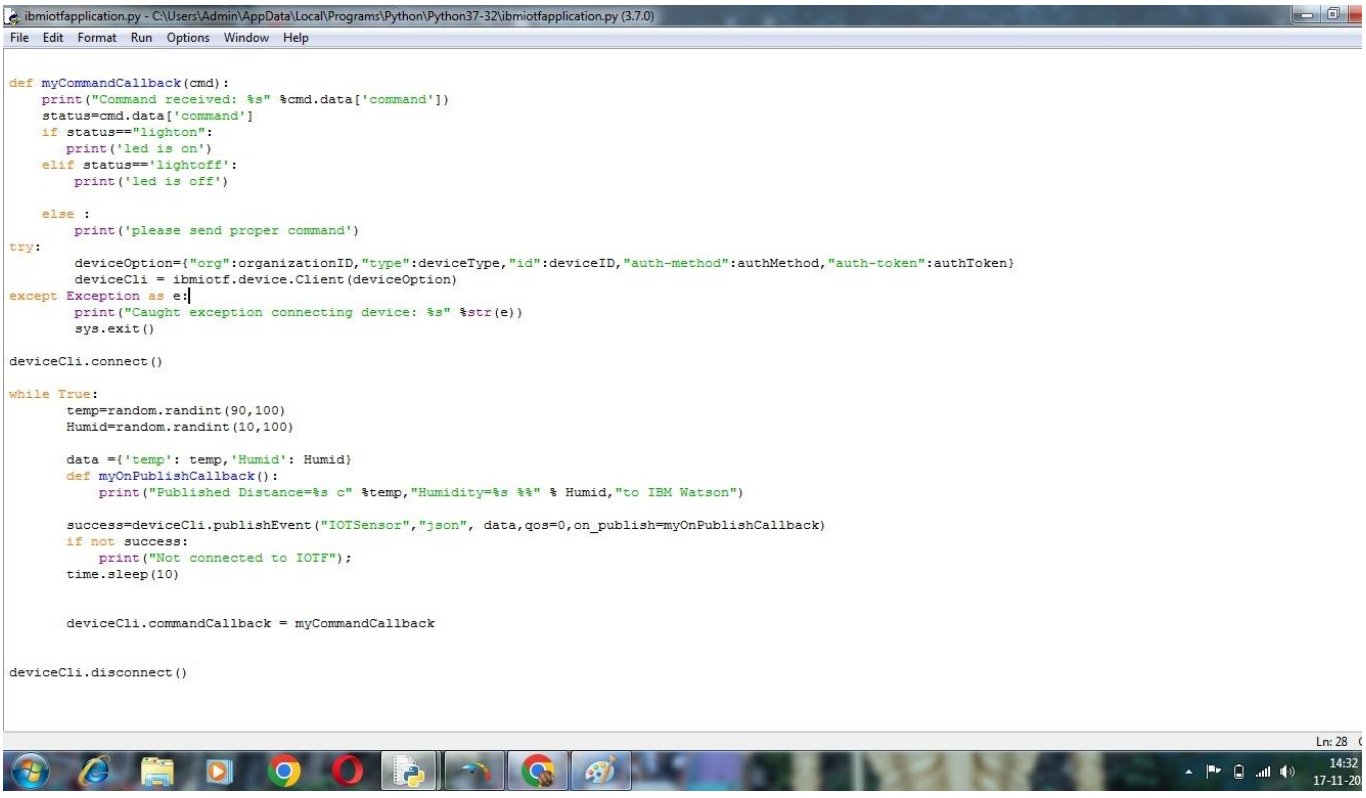
Develop A Python Script

TEAM ID	PNT2022TMID50055
PROJECT NAME	Smart Waste Management using IOT Metropolitan cities

```
import time
import sys
import ibmiotf.device
import ibmiotf.application
import random


organizationID='1hdx6w'
deviceType='GAYATHRI'
deviceID='171122'
authMethod='token'
authToken='12345678'


def myCommandCallback(cmd):
    print("Command received: %s" %cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
       print('led is on')
    elif status=='lightoff':
        print('led is off')

    else :
        print('please send proper command')
try:
        deviceOption={"org":organizationID,"type":deviceType,"id":deviceID,"auth-
method":authMethod,"auth-token":authToken}
        deviceCli = ibmiotf.device.Client(deviceOption)
except Exception as e:
        print("Caught exception connecting device: %s" %str(e))
        sys.exit()

deviceCli.connect()

while True:
       temp=random.randint(90,100)
       Humid=random.randint(10,100)

       data ={'temp': temp,'Humid': Humid}
       def myOnPublishCallback():
          print("Published Distance=%s c" %temp,"Humidity=%s %%" % Humid,"to IBM Watson")

       success=deviceCli.publishEvent("IOTSensor","json",
data,qos=0,on_publish=myOnPublishCallback)
       if not success:
```

```
    print("Not connected to IOTF");
time.sleep(10)


    deviceCli.commandCallback = myCommandCallback

deviceCli.disconnect()
```






Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
2022-11-17 14:27:24,348 ibmiotf.device.Client INFO Connected successfully: d:1hdx6w:Gayathri:171122
Published Distance=98 c Humidity=89 % to IBM Watson
Published Distance=91 c Humidity=21 % to IBM Watson
Published Distance=92 c Humidity=27 % to IBM Watson
Published Distance=96 c Humidity=54 % to IBM Watson
Published Distance=96 c Humidity=30 % to IBM Watson
Published Distance=91 c Humidity=93 % to IBM Watson
Published Distance=97 c Humidity=93 % to IBM Watson
Published Distance=99 c Humidity=79 % to IBM Watson
Published Distance=90 c Humidity=32 % to IBM Watson
Published Distance=98 c Humidity=38 % to IBM Watson
Published Distance=91 c Humidity=80 % to IBM Watson
Published Distance=95 c Humidity=71 % to IBM Watson
Published Distance=96 c Humidity=78 % to IBM Watson
Published Distance=96 c Humidity=41 % to IBM Watson
Published Distance=91 c Humidity=51 % to IBM Watson
Published Distance=96 c Humidity=86 % to IBM Watson
Published Distance=91 c Humidity=33 % to IBM Watson
Published Distance=95 c Humidity=26 % to IBM Watson
Published Distance=92 c Humidity=45 % to IBM Watson
Published Distance=90 c Humidity=33 % to IBM Watson
Published Distance=91 c Humidity=45 % to IBM Watson
Published Distance=94 c Humidity=14 % to IBM Watson
Published Distance=100 c Humidity=58 % to IBM Watson
Published Distance=100 c Humidity=41 % to IBM Watson
Published Distance=100 c Humidity=37 % to IBM Watson
Published Distance=95 c Humidity=92 % to IBM Watson
Published Distance=92 c Humidity=82 % to IBM Watson
Published Distance=97 c Humidity=46 % to IBM Watson
Published Distance=94 c Humidity=62 % to IBM Watson
Published Distance=98 c Humidity=82 % to IBM Watson
Published Distance=98 c Humidity=61 % to IBM Watson
Published Distance=100 c Humidity=64 % to IBM Watson
Published Distance=92 c Humidity=46 % to IBM Watson
Published Distance=92 c Humidity=95 % to IBM Watson
Published Distance=90 c Humidity=25 % to IBM Watson
Published Distance=96 c Humidity=97 % to IBM Watson
Published Distance=93 c Humidity=32 % to IBM Watson
Published Distance=93 c Humidity=10 % to IBM Watson
Published Distance=98 c Humidity=93 % to IBM Watson
Ln: 9 Col: 0
14:33
17-11-2022